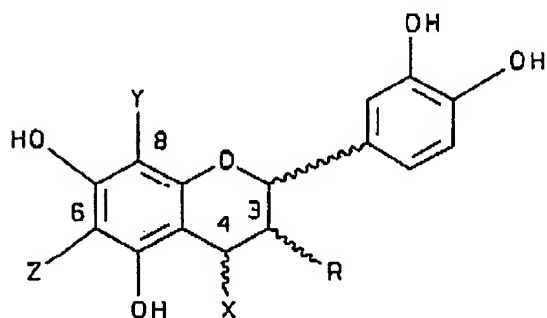


Amendment to the Claims:

1-74 (canceled)

75. (withdrawn) A method of treating or preventing an NO-responsive disease or disorder by administering to a subject in need thereof an effective amount of a composition comprising (i) a polyphenol compound of formula A<sub>n</sub>, wherein n is 1 or 2 to 18 and A has the following formula:



R is 3-( $\alpha$ ) - OIL, 3-( $\beta$ ), 3-( $\alpha$ ) - O-saccharide, 3-( $\beta$ )-O-saccharide, 3-( $\alpha$ )-O-C(O)-R', or 3-( $\beta$ )-OC(O)-R';

bonding between adjacent monomers takes place at positions 4, 6 or 8;

a bond to a monomer in position 4 has alpha or beta stereochemistry;

X, Y and Z are selected from the group consisting of A, hydrogen, and a saccharide moiety, with the proviso that as to at least one terminal monomer, bonding of the adjacent monomer thereto is at position 4 and optionally Y = Z = hydrogen; and

wherein the saccharide moiety is a mono- or di-saccharide moiety and may be optionally substituted with a phenolic moiety and R' may be an aryl or heteroaryl moiety optionally substituted with at least one hydroxyl group; and

salts, derivatives and oxidation products thereof;

and (ii) L-arginine in a combined amount effective to modulate nitric oxide and/or NO synthase upon ingestion by a human or a veterinary animal,

wherein the L-arginine is in the amount of at least 1mg/g;

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2

Appl. Ser. No: 10/790,289

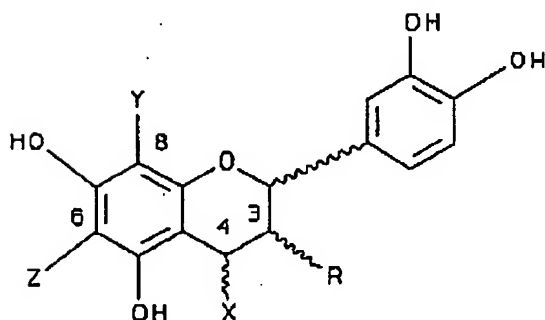
Filed: 03/01/2004

Request for RCE and Amendment filed: December 16, 2008

with the proviso that when the compound is in the form of a cocoa ingredient, the amount of L-arginine is greater than that provided with a cocoa ingredient.

76. (withdrawn) The method of claim 75, wherein the NO-responsive disease and/or disorder is selected from the group consisting of: hypertension, cardiovascular disease, renal disease, and impaired cognitive function.
77. (withdrawn) The method of claim 76, wherein the composition is a food.
78. (withdrawn) The method of claim 76, wherein the composition is a pharmaceutical.
79. (new) A non-chocolate food product comprising (i) a cocoa polyphenol in the amount of at least 1 mg/g and (ii) L-arginine in the amount of at least 10 mg/g, with the proviso that when the cocoa polyphenol is provided within a cocoa ingredient, the amount of L-arginine is greater than that provided with the cocoa ingredient; and wherein the non-chocolate food product is effective to induce vasorelaxation in a human or a veterinary animal.
80. (new) The non-chocolate food product of claim 79, wherein the cocoa polyphenol is provided within a cocoa extract.
81. (new) The non-chocolate food product of claim 80, wherein the cocoa polyphenol is in the amount of at least 3 mg/g.
82. (new) The non-chocolate food product of claim 79, wherein the cocoa polyphenol is provided within a cocoa ingredient.
83. (new) The non-chocolate food product of claim 79, wherein the cocoa polyphenol is in the amount of at least 1.25 mg/g.
84. (new) The non-chocolate food product of claim 79, wherein the cocoa polyphenol is in the amount of at least 1.5 mg/g.
85. (new) The non-chocolate food product of claim 79, wherein the cocoa polyphenol is in the amount of at least 2 mg/g.
86. (new) The non-chocolate food product of claim 79, wherein the cocoa polyphenol is in the amount of at least 5 mg/g.
87. (new) The non chocolate food product of claim 79, comprising at least one ingredient selected from the group consisting of peanuts, walnuts, hazelnuts, almonds, and soy beans.

88. (new) The non-chocolate food product of claim 79, which is a peanut-based food product.
89. (new) The non-chocolate food product of claim 88, wherein the cocoa polyphenol is in the amount of at least 3 mg/g.
90. (new) The non-chocolate food product of claim 88, wherein the peanut-based food product is peanut butter.
91. (new) The non-chocolate food product of claim 88, wherein the peanut-based food product is peanut brittle.
92. (new) The non-chocolate food product of claim 79, wherein the food product is a pet food.
93. (new) The non-chocolate food product of claim 92, wherein the cocoa polyphenol is provided within a cocoa extract.
94. (new) The non-chocolate food product of claim 92, wherein the cocoa polyphenol is in the amount of at least 1.25 mg/g.
95. (new) The non-chocolate food product of claim 92, wherein the cocoa polyphenol is in the amount of at least 1.5 mg/g.
96. (new) The non-chocolate food product of claim 92, wherein the cocoa polyphenol is in the amount of at least 2 mg/g.
97. (new) The non-chocolate food product of claim 92, wherein the cocoa polyphenol is in the amount of at least 5 mg/g.
98. (new) A non-chocolate food product comprising:
  - (i) a polyphenol compound of formula A<sub>n</sub> in the amount of at least 1 mg/g; wherein n is 1 or 2 to 18 and A has the following formula:



R is 3-( $\alpha$ ) - OH, 3-( $\beta$ ), 3-( $\alpha$ ) - O-saccharide, 3-( $\beta$ ) - O-saccharide, 3-( $\alpha$ ) - O-C(O)-R', or 3-( $\beta$ ) - OC(O)-R';

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4

Appl. Ser. No: 10/790,289

Filed: 03/01/2004

Request for RCE and Amendment filed: December 16, 2008

bonding between adjacent monomers takes place at positions 4, 6 or 8;

a bond to a monomer in position 4 has alpha or beta stereochemistry;

X, Y and Z are selected from the group consisting of A, hydrogen, and a saccharide moiety, with the proviso that as to at least one terminal monomer, bonding of the adjacent monomer thereto is at position 4 and optionally Y = Z = hydrogen; and

wherein the saccharide moiety is a mono- or di-saccharide moiety and may be optionally substituted with a phenolic moiety and R' may be an aryl or heteroaryl moiety optionally substituted with at least one hydroxyl group; and

salts, derivatives and oxidation products thereof;

and (ii) L-arginine in the amount of at least 10 mg/g;

with the proviso that when the cocoa polyphenol is provided as a cocoa ingredient, the amount of L-arginine is greater than that provided with the cocoa ingredient; and wherein the non-chocolate food product is effective to induce vasorelaxation in a human or a veterinary animal.

99. (new) The non-chocolate food product of claim 98, comprising at least one ingredient selected from the group consisting of peanuts, walnuts, hazelnuts, almonds, and soy beans.
100. (new) The non-chocolate food product of claim 98, which is a peanut-based food product.
101. (new) The non-chocolate food product of claim 100, wherein the cocoa polyphenol is in the amount of at least 3 mg/g.
102. (new) The non-chocolate food product of claim 100, wherein the peanut-based food product is peanut butter.
103. (new) The non-chocolate food product of claim 100, wherein the peanut-based food product is peanut brittle.
104. (new) The non-chocolate food product of claim 98, wherein the food product is a pet food.
105. (new) The non-chocolate food product of claim 104, wherein the cocoa polyphenol is in the amount of at least 1.25 mg/g.
106. (new) The non-chocolate food product of claim 104, wherein the cocoa polyphenol is in the amount of at least 1.5 mg/g.

107. (new) The non-chocolate food product of claim 104, wherein the cocoa polyphenol is in the amount of at least 2 mg/g.
108. (new) The non-chocolate food product of claim 104, wherein the cocoa polyphenol is in the amount of at least 5 mg/g.
109. (new) A non-chocolate food product comprising a cocoa polyphenol in the amount of at least 1 mg/g and L-arginine in the amount of at least 100 mg/g.
110. (new) The non-chocolate food product of claim 109, wherein the cocoa polyphenol is in the amount of at least 1.25 mg/g.
111. (new) The non-chocolate food product of claim 109, wherein the cocoa polyphenol is in the amount of at least 1.5 mg/g.
112. (new) The non-chocolate food product of claim 109, wherein the cocoa polyphenol is in the amount of at least 2 mg/g.
113. (new) The non-chocolate food product of claim 109, wherein the cocoa polyphenol is in the amount of at least 3 mg/g.
114. (new) The non-chocolate food product of claim 109, wherein the cocoa polyphenol is in the amount of at least 4 mg/g.
115. (new) The non-chocolate food product of claim 109, wherein the cocoa polyphenol is in the amount of at least 5 mg/g.